print("Hello World! :-)")

var str = "Hello, playground"

print(str)

print("This is our string:\(str)", terminator:" ")

print("1","2","3","4","5",separator:"..")

var n1=10

print("Number 1:",n1,"string:",str)

var n2=20

print("Number 2:",n2)

var sum=n1+n2

print("Sum:",sum)

print("Sum:",n1+n2)

/\*n1="test"

print("n1",n1)\*/

var a:Int = 10

print("a=",a)

var greet:String="Good Morning"

print("Greetings : ",greet)

var emoji=":)";

print("its a \(emoji) hour")

let pi=3.14

//pi=3.19

print("Pi=",pi)

let mynum:Int? //optional

//mynum=10

mynum = nil

//if...else

if mynum != nil{

print("mynum: ",mynum!)

}

else{

print("mynum is null")

}

let possiblenumber = "hello"

let convertednumber:Int?

convertednumber = Int(possiblenumber)

if convertednumber != nil

{

print("Converterd NUmber:" ,convertednumber!)

}

else{

print("convertednumber is null")

}

//for loop

for i in 1..<5 {

print("i=",i)

}

//array of string

let language:[String]

language = ["English","Spanish","French"]

for i in language{

print("Language=",i)

}

let arr:[Int]

arr = [1,2,3,4,5]

var sum1=0

for i in arr{

sum1=sum1+i

}

print("Sum=",sum1)

var answer: Int = 1

for \_ in 1...5{

answer \*= 5

}

print("answer=",answer)

var Interval:Int = 5

for i in stride(from: 0, to: 50, by: Interval){

print(i," ",terminator:" ")

}

//while loop

var itr1:Int = 0

while itr1<5{

print("Value:",itr1)

itr1 += 1

}

var j=1

while (j<5)

{

print("Value of J is \(j)")

j=j+1

}

repeat{

print("Repeat:",j)

j=j+2

}while (j<=10)

//switch case

var num1 = 100

switch num1 {

case 100:

print("Value is 100")

fallthrough // continue the execution

case 10,15:

print("Value is either 10 or 15")

default :

print("Default")

}

/\*

let countedThings = "moons orbiting saturn"

let naturalCount: String

switch approximateCount{

case 0:

naturalCount = "no"

case 1..<5:

naturalCount = "a few"

case 5..<12:

naturalCount = "several"

default :

naturalCount = "many"

}

print("There are \(naturalcount) \(countthings).")

\*/

//Factorial And Multiplication

var n = 5

var fact = 1

for i in 1...n

{

fact = fact \* i

}

print("Factor",fact)

var t = 1

var m = 5

var an = 1

while (t<=10)

{

an = m \* t

t = t+1

}

print(an)